

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P980656

Luminaire Tested: UHBS2-1218-W-L83065-MID-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-MID-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

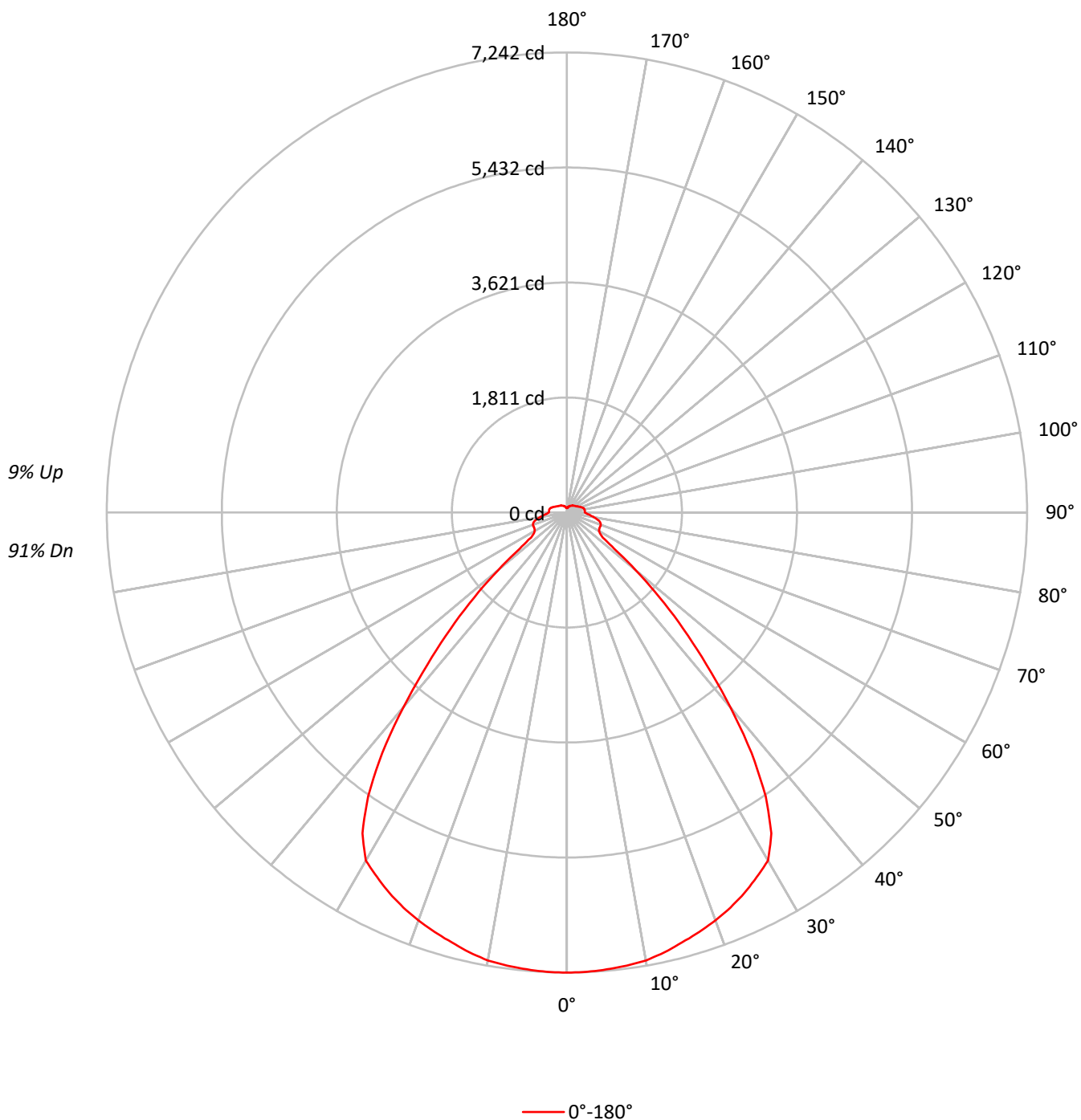
Lumens per Lamp: N/A
Luminaire Lumens: 14514.9 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 96.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980656

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR6

Luminous Intensity Polar Plot



TEST NUMBER: P980656

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58642
5°	56274
10°	54195
15°	51923
20°	49977
25°	48077
30°	46132
35°	40161
40°	30021
45°	19916
50°	11295
55°	5739
60°	5117
65°	5310
70°	5736
75°	5851
80°	5348
85°	4754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19916 cd/sqm

TEST NUMBER: P980656

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.4	4.7
10°-20°	1980.9	13.6
20°-30°	3047.0	21.0
30°-40°	3329.1	22.9
40°-50°	2011.2	13.9
50°-60°	722.4	5.0
60°-70°	567.1	3.9
70°-80°	546.8	3.8
80°-90°	376.7	2.6
90°-100°	307.4	2.1
100°-110°	281.4	1.9
110°-120°	213.7	1.5
120°-130°	157.4	1.1
130°-140°	117.6	0.8
140°-150°	83.0	0.6
150°-160°	52.8	0.4
160°-170°	26.3	0.2
170°-180°	6.8	0.0
0°-30°	5715.2	39.4
0°-40°	9044.3	62.3
0°-60°	11777.9	81.1
0°-90°	13268.5	91.4
90°-120°	802.5	5.5
90°-150°	1160.5	8.0
90°-180°	1246.0	8.6
0°-180°	14514.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7242	
5°	7220	687
15°	7006	1981
25°	6609	3047
35°	5455	3329
45°	2590	2011
55°	691	722
65°	568	567
75°	529	547
85°	337	296
90°	283	158
95°	281	230
105°	269	281
115°	214	214
125°	174	157
135°	152	118
145°	132	83
155°	114	53
165°	92	26
175°	70	7
180°	69	

TEST NUMBER: P980656

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	7242.4
2.5°	7237.9
5°	7219.9
7.5°	7196.3
10°	7160.3
12.5°	7092.8
15°	7006.2
17.5°	6924.1
20°	6833.0
22.5°	6730.6
25°	6609.2
27.5°	6470.8
30°	6328.0
32.5°	5988.3
35°	5455.1
37.5°	4771.3
40°	4006.4
42.5°	3246.1
45°	2590.3
47.5°	1978.5
50°	1419.5
52.5°	936.9
55°	690.6
57.5°	620.9
60°	583.8
62.5°	572.5
65°	568.0
67.5°	569.1
70°	568.0
72.5°	555.6
75°	528.6
77.5°	484.8
80°	433.0
82.5°	382.4
85°	337.4
87.5°	303.7
90°	283.4
92.5°	281.2
95°	281.2
97.5°	282.3
100°	281.2
102.5°	276.7
105°	268.8
107.5°	256.4
110°	241.8

TEST NUMBER: P980656

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	228.3
115°	213.7
117.5°	201.3
120°	191.2
122.5°	182.2
125°	174.3
127.5°	167.6
130°	162.0
132.5°	156.3
135°	151.8
137.5°	146.2
140°	141.7
142.5°	136.1
145°	131.6
147.5°	127.1
150°	122.6
152.5°	118.1
155°	113.6
157.5°	109.1
160°	103.5
162.5°	97.9
165°	92.2
167.5°	85.5
170°	78.7
172.5°	69.7
175°	69.7
177.5°	68.6
180°	68.6

(END OF REPORT)